



# **RELEASED ITEMS**

**MATHEMATICS  
GRADE 3**

**FALL 2005**

**MICHIGAN STATE BOARD OF EDUCATION  
STATEMENT OF ASSURANCE OF COMPLIANCE WITH FEDERAL LAW**

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# PART 1


## DIRECTIONS

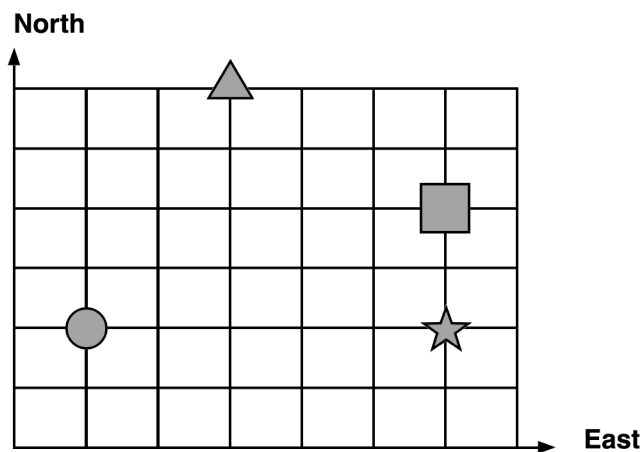
This test has four parts. You may **NOT** use a calculator on the first part. You may use open space in this test booklet for scratch paper.




**The items on this test are all multiple-choice.** Multiple-choice items require you to choose the best answer from among three answer choices. Mark your answer in your test booklet by completely filling in the bubble next to the correct answer. Use only a No. 2 pencil to mark your answer in your test booklet. If you erase an answer, be sure to erase it completely.

Be careful not to make any marks in the bubbles next to the letters A, B or C except for the one that goes with your answer. You may **NOT** use any other paper to do your work.

### Sample Multiple-Choice Item:

Start from the . First go 1 block east, then go 1 block south, then go 4 blocks east, and 1 block north. Where do you end up?



- |                                    |   |
|------------------------------------|---|
| <input checked="" type="radio"/> A |  |
| <input type="radio"/> B            |  |
| <input type="radio"/> C            |  |

For this sample item, the correct answer is **A**. Circle **A** is filled in on the sample item in your test booklet.

You will have at least 35 minutes to finish Part 1 of this test. You will be given additional time if necessary.

1. Once you have reached the word STOP in your test booklet, do NOT go on to the next page.
2. If you finish early, you may check your work in Part 1 of the test ONLY.
3. Do **NOT** look at items in other parts of the test.

If you do not understand any of these directions, please raise your hand.

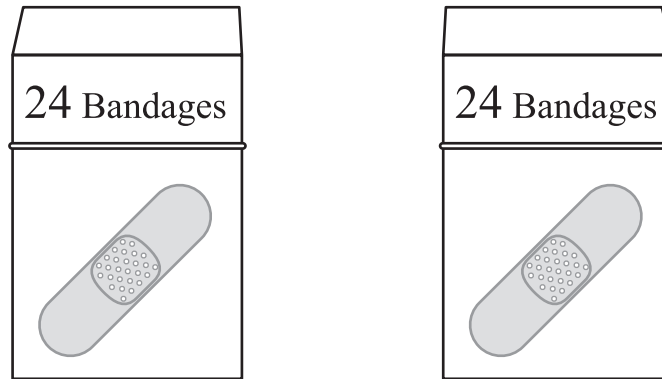
**1** Jenny's plant is 5 inches tall. If it grows 2 inches more, how tall will it be?

- ☐ **A** 3 inches
- ☐ **B** 7 inches
- ☐ **C** 52 inches

**2** Hannah spent \$5.00 for a movie ticket and \$1.25 for popcorn. How much did Hannah spend in all?

- ☐ **A** \$6.00
- ☐ **B** \$6.25
- ☐ **C** \$7.25

- 3 Mrs. Evers bought 2 boxes with 24 bandages each. How many bandages did she buy in all?



- ☐ A 40
- ☐ B 45
- ☐ C 48
- 4 Tom drove 103 miles in the morning and 125 miles in the afternoon. How many miles did Tom drive in all, to the *nearest* hundred?
- ☐ A 100
- ☐ B 200
- ☐ C 300

**5** What is 156 plus 209?

- ☐ **A** 175
- ☐ **B** 355
- ☐ **C** 365

**6** How many more inches do you need to make a 12-inch line 17 inches long?

- ☐ **A** 5 inches
- ☐ **B** 7 inches
- ☐ **C** 12 inches

**7** Diane's board was 4 yards long. She cut off a piece 1 yard long. How long was her board then?

- ☐ **A** 3 yards
- ☐ **B** 5 yards
- ☐ **C** 41 yards

- 8 The garden has 125 red flowers and 112 pink flowers. Which is the *closest* to the total number of flowers?

☐ A 100

☐ B 200

☐ C 300

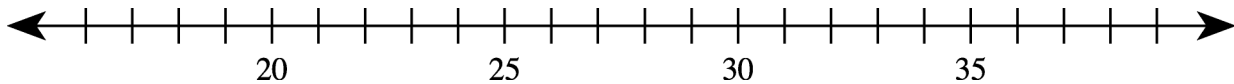
- 9 Grace is 3 feet tall. Jane is 5 feet tall. What is the difference in their heights?

☐ A 2 feet

☐ B 3 feet

☐ C 8 feet

- 10 How far is 37 from 25?



☐ A 8

☐ B 11

☐ C 12



- 11** One line is 6 m long. Another line is 9 m long. What is the difference in length between the two lines?

☐ **A** 3 m

☐ **B** 9 m

☐ **C** 15 m

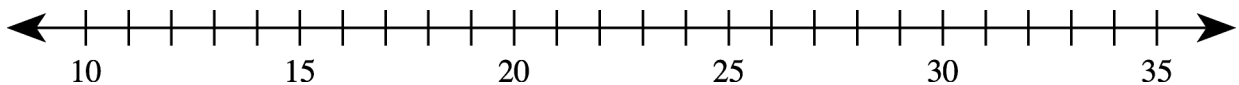
- 12** Jane had 200 sheets of paper. She used 27 for a report. How many sheets does she have left?

☐ **A** 173

☐ **B** 183

☐ **C** 227

- 13** How far is 14 from 32?



☐ **A** 18

☐ **B** 19

☐ **C** 25

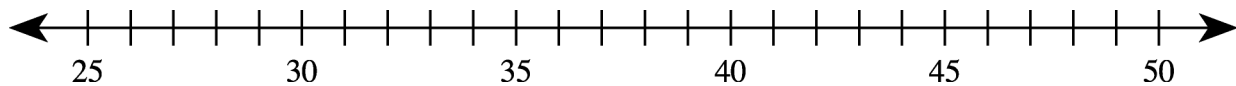
- 14 Hayley has 198 pencils and Rosa has 301 pencils. How many pencils do they have altogether, to the *nearest* hundred?

☐ A 300

☐ B 400

☐ C 500

- 15 Look at the number line below.



How far is 45 from 30?

☐ A 14

☐ B 15

☐ C 16





**IF YOU FINISH EARLY, YOU MAY CHECK  
YOUR WORK FOR THIS SECTION ONLY.**

**DO NOT GO ON TO THE NEXT SECTION OF  
THIS TEST UNTIL TOLD TO DO SO.**



## PART 2

### DIRECTIONS

You will now begin Part 2 of this test. You may use a calculator on this part of the test, and you may use open space in this test booklet for scratch paper.

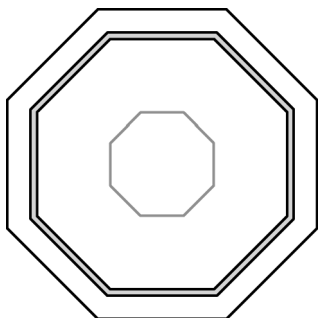
You will have at least 50 minutes to finish Part 2 of this test. You will be given additional time if necessary.

If you finish early, you may check your work for Part 2 **ONLY**.

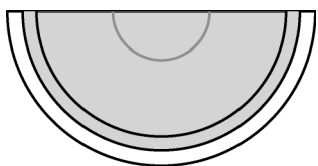
Do **NOT** look at items in other parts of this test.

16 Which plate is a circle?

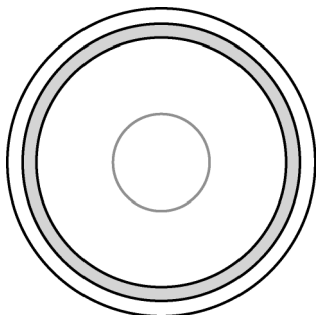
☐ A



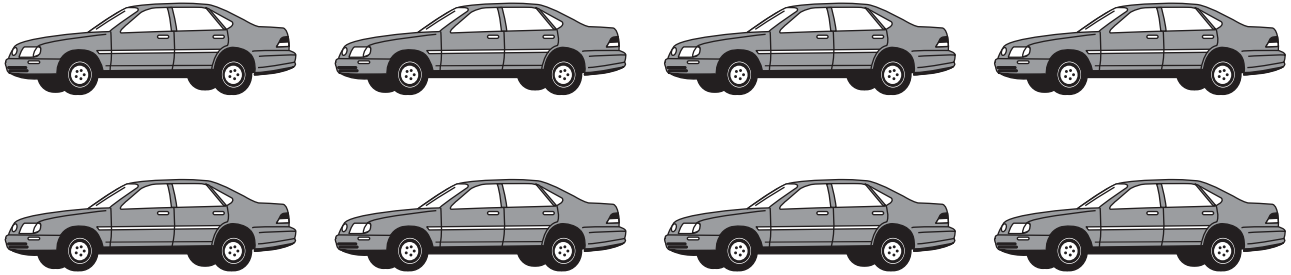
☐ B



☐ C



- 17 What is one way to find the total number of cars?



- ☐ A  $2 + 2 + 2$
- ☐ B  $3 + 3$
- ☐ C  $4 + 4$

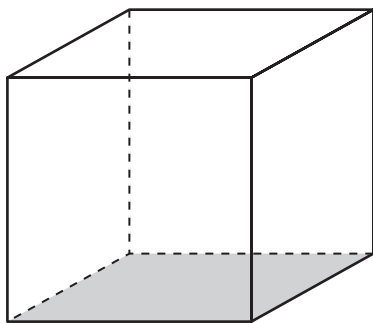
- 18 What time does the clock show?



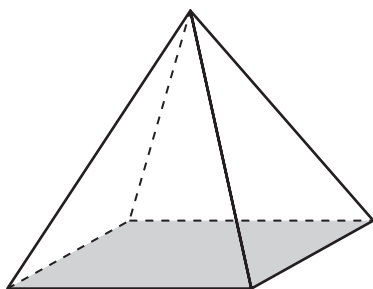
- ☐ A seven
- ☐ B seven-thirty
- ☐ C seven thirty-eight

19 Which figure below has a round base?

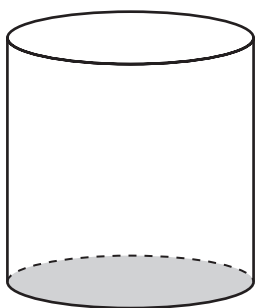
☐ A



☐ B

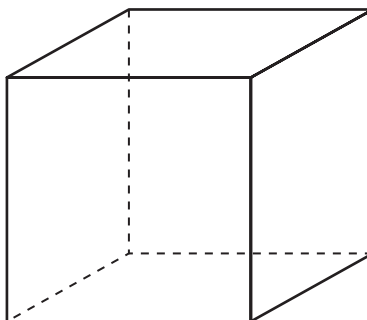


☐ C



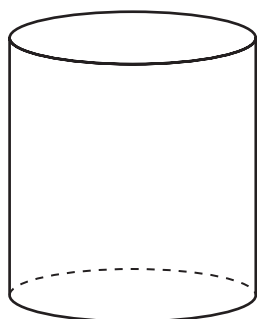


- 20 Look at the cube below.

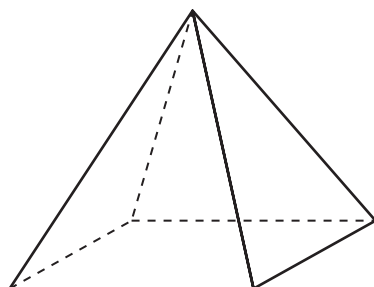


Which figure below has the same number of corners?

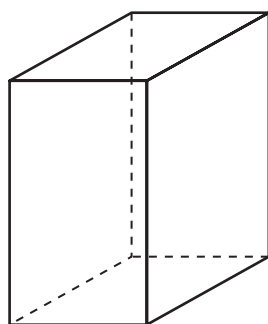
☐ A



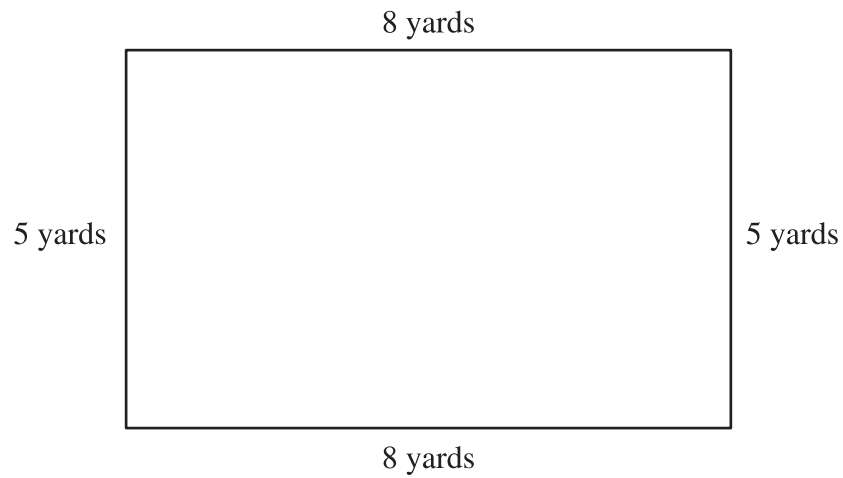
☐ B



☐ C

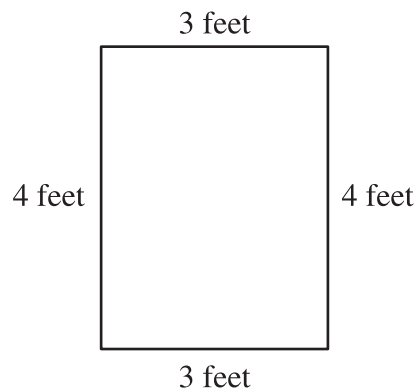


- 21 What is the perimeter of this rectangle?



- ☐ A 13 yards
- ☐ B 26 yards
- ☐ C 40 yards

- 22 What is the perimeter of this rectangle?



- ☐ A 7 feet
- ☐ B 12 feet
- ☐ C 14 feet

**23** What is another way of writing eight dollars and ten cents?

- ☐ **A**    \$ 0.81
- ☐ **B**    \$ 8.10
- ☐ **C**    \$81.00

**24** How is four hundred ninety-six written as a numeral?

- ☐ **A**        496
- ☐ **B**        4,096
- ☐ **C**        40,096

- 25 What is one way to find the total number of chairs in this picture?

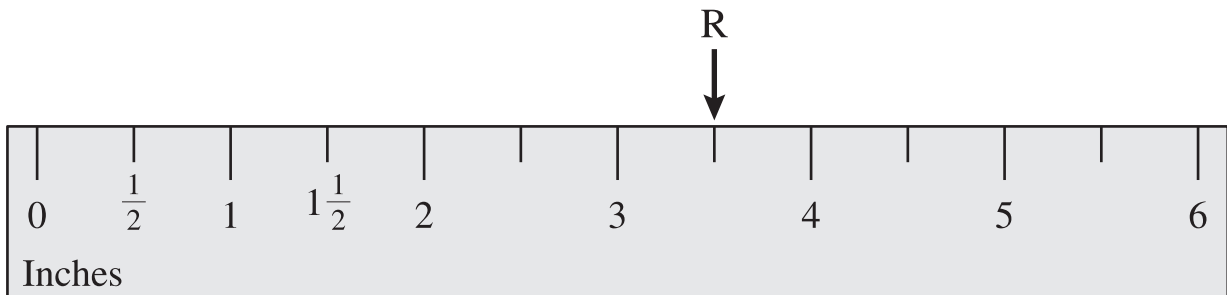


- ☐ A  $5 \times 2$
- ☐ B  $5 \times 3$
- ☐ C  $9 \times 1$

26 What is another way of writing \$9.23?

- ☐ A nine hundred twenty-three dollars
- ☐ B nine dollars and twenty-three cents
- ☐ C nine dollars and twenty cents

27 Look at the ruler below.



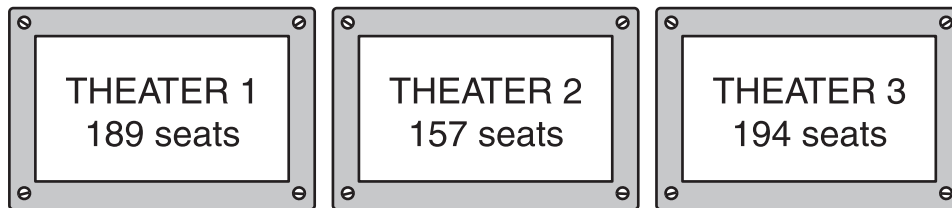
Which number does R show?

- ☐ A  $1\frac{1}{2}$
- ☐ B  $2\frac{1}{2}$
- ☐ C  $3\frac{1}{2}$

28 Which shape has the same number of sides as a rectangle?

- ☐ A a square
- ☐ B a triangle
- ☐ C a semi-circle

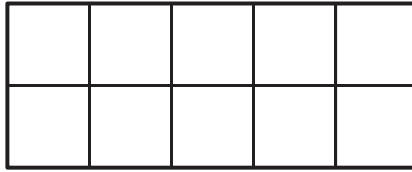
29 Look at the signs for three different movie theaters in the mall.



Which movie theater has the *least* number of seats?

- ☐ A Theater 1
- ☐ B Theater 2
- ☐ C Theater 3

- 30 Which expression below could be used to find the area of this rectangle?

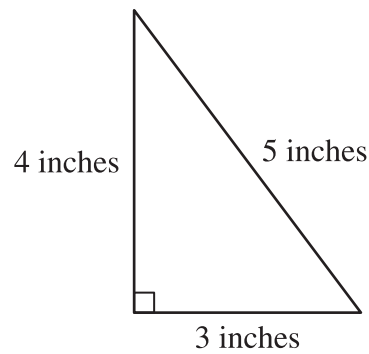


- ☐ A  $5 \times 2$
- ☐ B  $5 + 2$
- ☐ C  $5 - 2$
- 31 What time in the morning is shown on the clock below?



- ☐ A 6:55 a.m.
- ☐ B 11:07 a.m.
- ☐ C 11:35 a.m.

- 32 What is the perimeter of this triangle?



- ☐ **A** 7 inches
- ☐ **B** 8 inches
- ☐ **C** 12 inches







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## PART 3

### DIRECTIONS

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You will have at least 50 minutes to finish Part 3 of this test. You will be given additional time if necessary.

If you finish early, you may check your work for Part 3 **ONLY**.

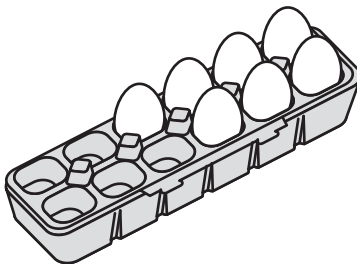
Do **NOT** look at items in other parts of this test.

- 33 What fraction shows the number of blocks that are gray?



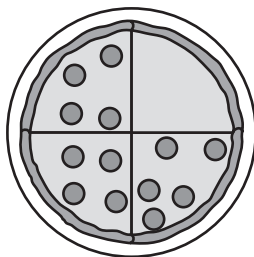
- ☐ A  $\frac{4}{6}$
- ☐ B  $\frac{4}{10}$
- ☐ C  $\frac{6}{10}$

- 34 What fraction names the amount of eggs in the carton?



- ☐ A  $\frac{7}{12}$
- ☐ B  $\frac{5}{7}$
- ☐ C  $\frac{7}{5}$

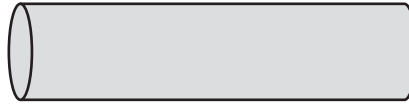
- 35 What fraction of this pizza has pepperoni on it?



- ☐ A  $\frac{1}{4}$
- ☐ B  $\frac{3}{4}$
- ☐ C  $\frac{4}{4}$

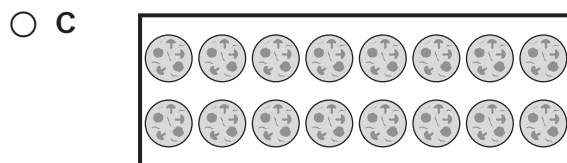
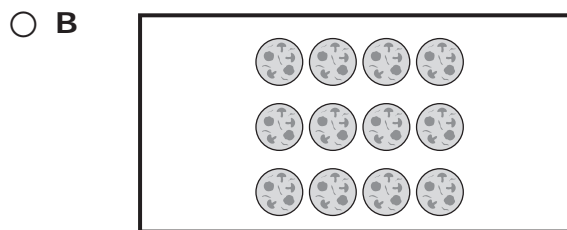
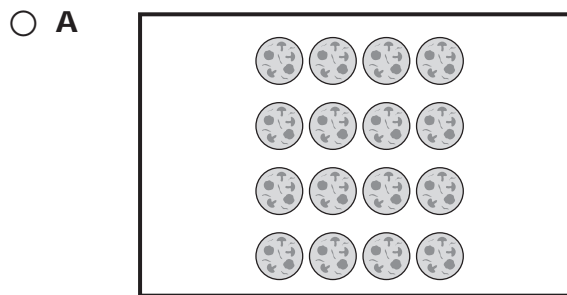


- 36 Use your ruler to measure the length of this chalk. How long is it?



- ☐ A 1 inch
- ☐ B 2 inches
- ☐ C 3 inches

- 37 Tim's tray has 4 rows of pizzas with 4 pizzas in each row. Which tray is Tim's?



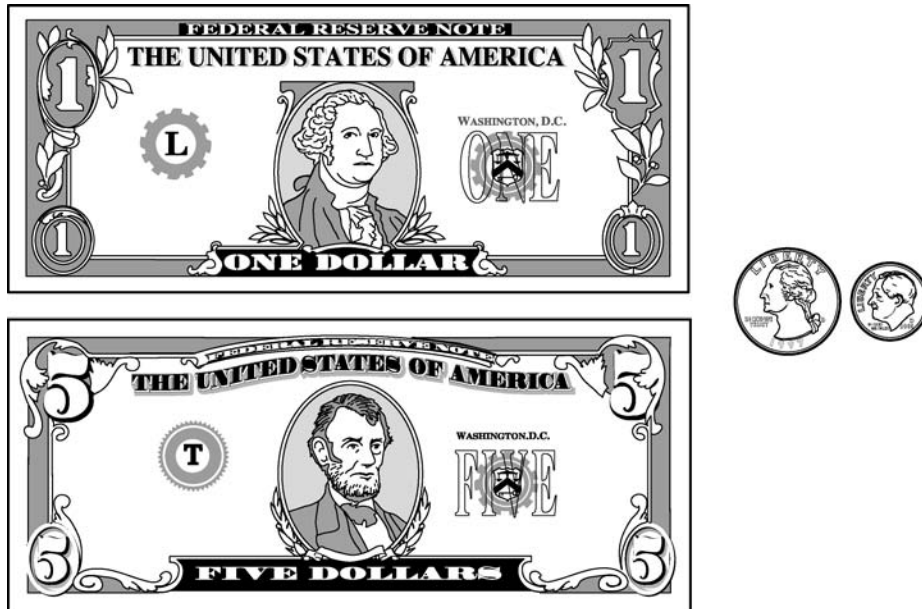
**38** How is 58 written in words?

- ☐ **A** five eight
- ☐ **B** eighty-five
- ☐ **C** fifty-eight

**39** How is 99 written in words?

- ☐ **A** nine nineteen
- ☐ **B** nine-nine
- ☐ **C** ninety-nine

- 40 How much money is shown in the picture below?



- ☐ A \$2.35
- ☐ B \$6.26
- ☐ C \$6.35
- 41 Which shape has the *fewest* number of sides?

- ☐ A a rectangle
- ☐ B a square
- ☐ C a triangle

- 42** Cindy had bowling scores of 98, 117, and 123. What was Cindy's total score for the three games?

☐ **A** 238

☐ **B** 328

☐ **C** 338

- 43** Use your ruler to measure the length of this candy bar.



How long is it?

☐ **A** 3 inches

☐ **B** 4 inches

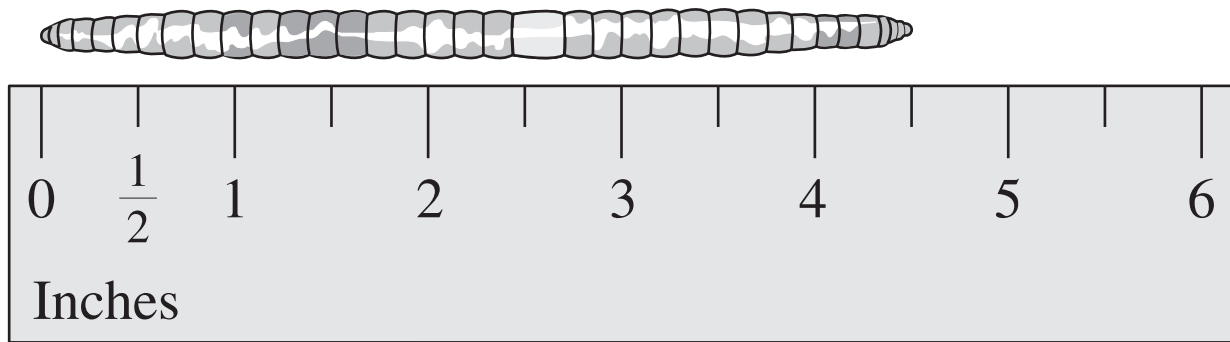
☐ **C** 5 inches



44 Which of these letters is curved and open?

- ☐ A O
- ☐ B U
- ☐ C Z

45 How long is this worm?



- ☐ A  $3\frac{1}{2}$  inches
- ☐ B  $4\frac{1}{2}$  inches
- ☐ C  $5\frac{1}{2}$  inches

46 Sarah is thinking of a number that is greater than 137 but less than 162. Which number below could be right?

- ☐ A 140
- ☐ B 170
- ☐ C 132

- 47** Julio needs \$55 to buy clothes for school. He earns \$24 working after school. How much more money does Julio need to buy the clothes?

☐ **A** \$31

☐ **B** \$55

☐ **C** \$79

- 48** What time will it be one hour after 6:30?

☐ **A** 7:30

☐ **B** 7:00

☐ **C** 5:30

- 49** What fraction of this model is gray?

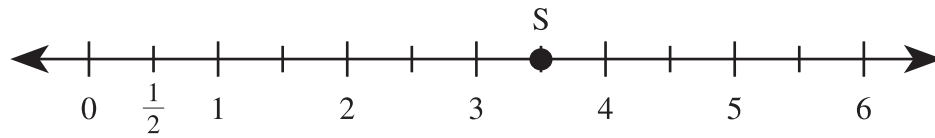


☐ **A**  $\frac{1}{6}$

☐ **B**  $\frac{5}{6}$

☐ **C**  $\frac{6}{6}$

- 50 Which number does S show on this number line?



- ☐ A  $3\frac{1}{2}$
- ☐ B  $4\frac{1}{2}$
- ☐ C  $5\frac{1}{2}$

- 51 What fraction of this model is gray?



- ☐ A  $\frac{1}{4}$
- ☐ B  $\frac{2}{4}$
- ☐ C  $\frac{3}{4}$

52 Which number sentence is true?

- ☐ A  $549 > 550$
- ☐ B  $549 > 552$
- ☐ C  $549 > 539$

53 What time is shown on this clock?



- ☐ A 15 minutes after 4
- ☐ B 15 minutes to 4
- ☐ C 25 minutes after 4





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## PART 4

### DIRECTIONS

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You will have at least 50 minutes to finish Part 4 of this test. You will be given additional time if necessary.

If you finish early, you may check your work for Part 4 **ONLY**.

Do **NOT** look at items in other parts of this test.

- 54 When Rachel left her house, she looked at the clock shown below and saw the time.



She returned to the house 35 minutes later. What time did the clock show then?

☐ A



☐ B



☐ C



- 55 Use your ruler to measure the long side of this rectangle. What is the measurement?

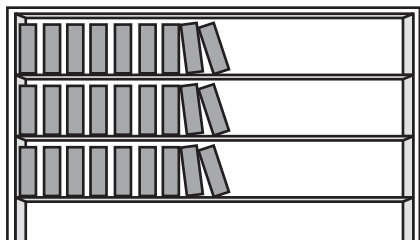


- ☐ A 2 inches
- ☐ B 3 inches
- ☐ C 4 inches
- 56 What time will it be half an hour after 1:20?
- ☐ A 1:50
- ☐ B 1:40
- ☐ C 1:30

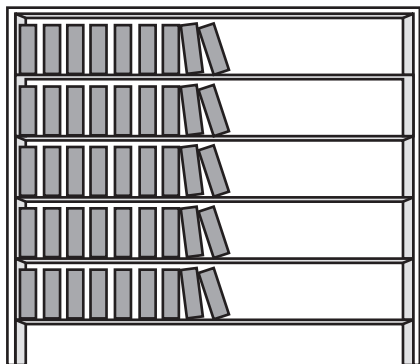


57 Which bookcase has 4 shelves with 9 books on each shelf?

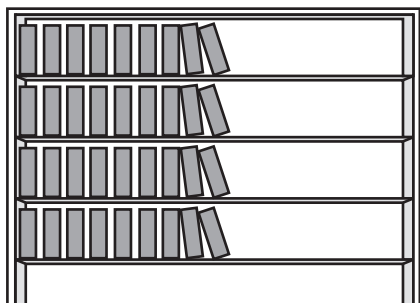
☐ A



☐ B



☐ C



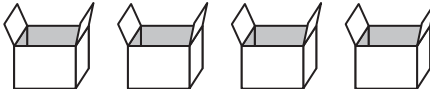
- 58** Mary had \$178 and then spent \$20 and earned \$50 more. How much money does she have now?

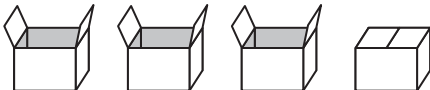
☐ **A** \$108


☐ **B** \$198

☐ **C** \$208

- 59** Which set of boxes shows  $\frac{1}{4}$  of the boxes opened?

☐ **A** 

☐ **B** 

☐ **C** 

- 60** James reads 8 pages of a book each day for 4 days. Which could James use to find the total number of pages he read?

☐ **A**  $8 + 4$

☐ **B**  $8 \times 4$

☐ **C**  $4 + 4 + 4 + 4$

- 61** Mary is skip counting. What number comes next?

100, 200, 300, 400, \_\_\_\_

- ☐ **A** 401
- ☐ **B** 410
- ☐ **C** 500

- 62** Which pair of numbers equals 100?

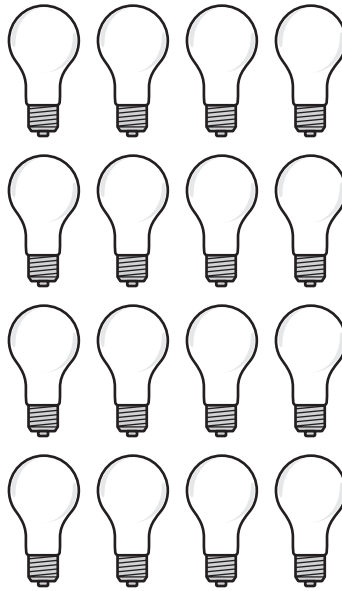
- ☐ **A** 42 + 68
- ☐ **B** 35 + 65
- ☐ **C** 79 + 31

- 63** What number is missing from the following number sentence?

$$116 - \square = 54$$

- ☐ **A** 52
- ☐ **B** 54
- ☐ **C** 62

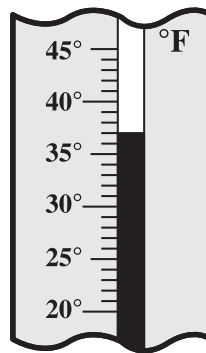
- 64 Jenna bought 4 sets of light bulbs. The bulbs come in sets of 4. How many light bulbs did she buy in all?



- ☐ A 4
- ☐ B 8
- ☐ C 16
- 65 Which of the following fractions is equal to 1?

- ☐ A  $\frac{1}{4}$
- ☐ B  $\frac{4}{4}$
- ☐ C  $\frac{8}{4}$

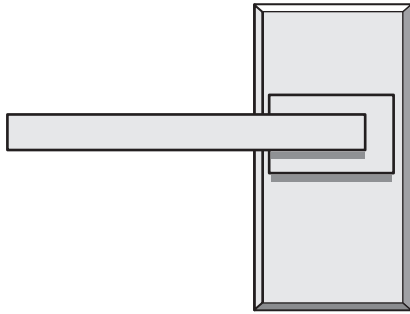
- 66 What temperature is shown on this thermometer?



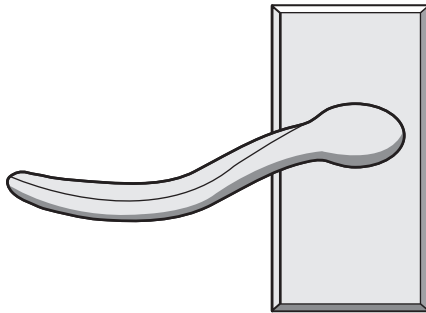
- ☐ A 37°F
- ☐ B 39°F
- ☐ C 40°F

67 Which door handle is straight?

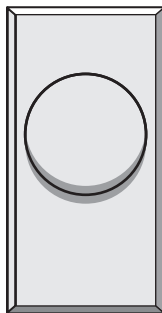
☐ A



☐ B



☐ C



68 Which division fact is another way of writing  $4 \times 5 = 20$ ?

☐ A  $16 \div 4 = 4$

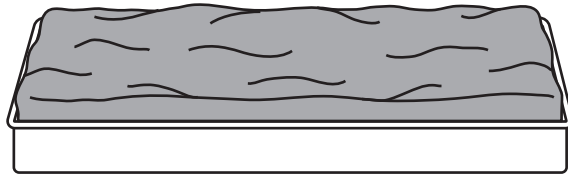
☐ B  $20 \div 5 = 4$

☐ C  $25 \div 5 = 5$



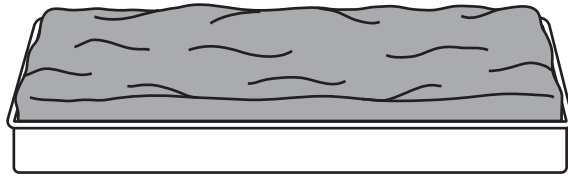
- 69 Each cake needs to be cut into a different number of pieces. Which cake will have the *smallest* pieces?

☐ A



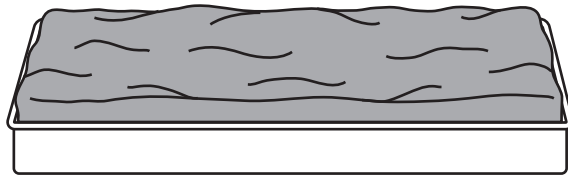
Cut into 10 equal pieces

☐ B



Cut into 4 pieces

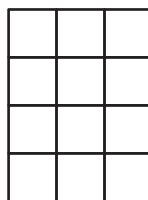
☐ C



Cut into 2 equal pieces

- 70 There is no released item 70.

- 71 What is the area of this rectangle in square units?



- ☐ A 7 square units
- ☐ B 12 square units
- ☐ C 14 square units

72 What is the sum of  $\$0.40 + 56$  cents?

- ☐ A \$0.60
- ☐ B \$0.96
- ☐ C \$4.56

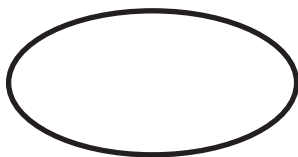
73 Which shape can be made by putting together these two shapes?



- ☐ A a circle
- ☐ B a square
- ☐ C a triangle

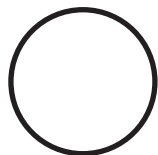


- 74 Look at the shape below.



Which of the following is the *same* shape as shown above?

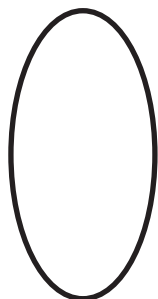
☐ A



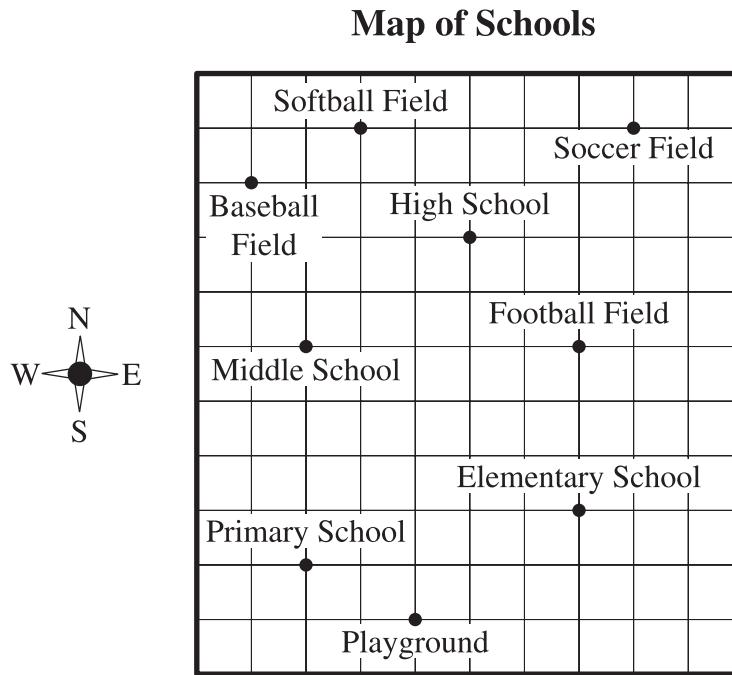
☐ B



☐ C



75 Look at the map.



Karen walked from the middle school to the football field. Which direction did she walk?

- ☐ **A** east
- ☐ **B** north
- ☐ **C** west

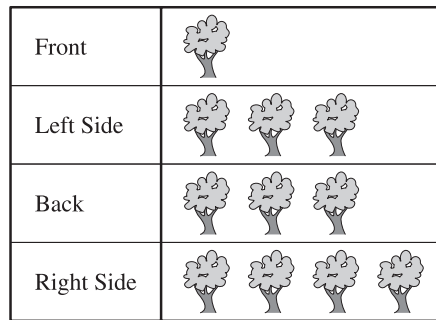
- 76 This list shows the number of trees on each side of a house.

Place	Number of Trees
Front	3
Left Side	9
Back	12
Right Side	9

Which graph correctly shows how many trees are planted in each place?

☐ A

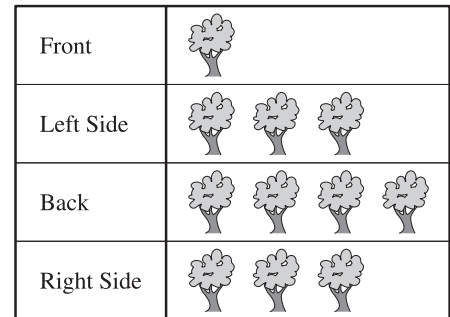
Trees



Each  means 3 trees.

☐ B

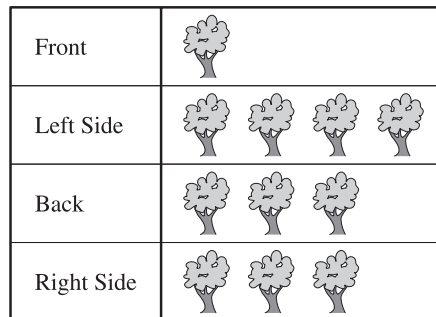
Trees



Each  means 3 trees.

☐ C

Trees



Each  means 3 trees.

- 77 The pictograph below shows how much money three girls saved.

**Money Saved**

Leticia	\$ \$ \$ \$ \$
Rachel	\$
Maddie	\$ \$ \$

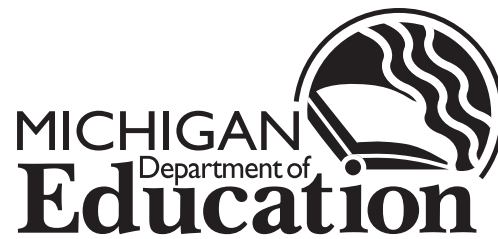
Each \$ stands for 2 dollars saved.

How much did Leticia and Rachel save together?

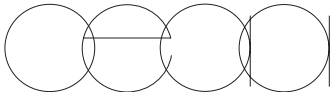
- ☐ **A** \$ 6
- ☐ **B** \$10
- ☐ **C** \$12







Assessment ● Accountability ● Accreditation <sup>TM</sup>



Office of Educational Assessment & Accountability

Michigan Department of Education  
Office of Educational Assessment and Accountability  
608 West Allegan Street  
P.O. Box 30008  
Lansing, Michigan 48909  
(517) 373-8393  
[www.michigan.gov/meap](http://www.michigan.gov/meap)

**Scoring Keys**

Part 1:

Item #	Answer Key
1	B
2	B
3	C
4	B
5	C
6	A
7	A
8	B
9	A
10	C
11	A
12	A
13	A
14	C
15	B

Part 2:

Item #	Answer Key
16	C
17	C
18	C
19	C
20	C
21	B
22	C
23	B
24	A
25	A
26	B
27	C
28	A
29	B
30	A
31	C
32	C

Continues on the next page.

Part 3:

Item #	Answer Key
33	B
34	A
35	B
36	B
37	A
38	C
39	C
40	C
41	C
42	C
43	B
44	B
45	B
46	A
47	A
48	A
49	A
50	A
51	A
52	C
53	A

Part 4:

Item #	Answer Key
54	B
55	B
56	A
57	C
58	C
59	C
60	B
61	C
62	B
63	C
64	C
65	B
66	A
67	A
68	B
69	A
71	B
72	B
73	A
74	C
75	A
76	B
77	C